INTEGRAL ABUTMENT CONSTRUCTION PROCEDURE

1. For piles extending over 10 ft, predrill holes to a depth of 8 ft below the stem at the
diameter specified in the foundation design report.
2. Drive the piles and cut off piles at elevations shown.
3. Install holes with designation as shown.
4. If piles are used, fill the shell with concrete.
5. Place the abutment stem concrete to required bridge seat elevation with anchor bolts in place.
   Pour the pile caps for the inner walls concurrently.
6. Set the steel work on the abutment with the anchor bolts passing through them.
   Set the beams and anchor them to the abutment using slotted holes in the bottom flange;
   do not fully tighten the anchor nuts at this time.
7. Pour the bridge deck excluding the abutment backwall/skewwall and the last portion of the
   bridge deck equal to the backwall/skewwall width.
8. Tighten the anchor nuts and pour the abutment backwall/skewwall full height and the
   remainder of the deck slab; the wing walls may also be poured concurrently.
9. Place the drain system and backfill in 8' lifts until the desired subgrade elevation is reached.
10. Pour the return slab starting at the end away from the abutment and progressing toward the
    backwall.

GENERAL NOTES

1. Diameter of augered hole shall be twice the size of the pile.
2. Cushion sand shall be designation B3 sand according to subsection B-5.3 of the standard specifications.
3. Cost of prefabrication of heads if required to shore up holes and provision of cushion sand shall be
   included in the unit price of the pile head.
4. Refer to section 38 of the manual for types of corrosion protected reinforcement steel that can be used.

INTEGRAL ABUTMENTS FOR
STEEL SUPERSTRUCTURE - 2 OF 2

NOTE TO DESIGNER:

Details included herein this drawing may be altered in performed contract plans.
However, in conformity with the provisions of section 6 of this manual, alternative
details may be provided.